

WHAT IS CLAIMED IS:

1 1. A magnetic read/write apparatus comprising:

2 a recording medium; and

3 a head for writing/reading data to/from each sector on said recording medium;

4 wherein said magnetic read/write apparatus further comprises:

5 write inhibit slice setting device for, when data is written to said

6 recording medium, setting a write inhibit slice for said each sector based on a

7 recording state of said each sector on said recording medium.

1 2. The magnetic read/write apparatus as claimed in claim 1, wherein said write

2 inhibit slice setting device sets different write inhibit slices (one each) on a left side and a

3 right side of said each sector.

1 3. The magnetic read/write apparatus as claimed in claim 1, wherein said write

2 inhibit slice setting device sets said write inhibit slice for said each sector based on at least

3 one of information on a write order of said each sector, position information on neighboring

4 sectors, information on a degree of proximity erasure by said head, and information on rewrite

5 counts of said neighboring sectors.

1 4. The magnetic read/write apparatus as claimed in claim 3, further

2 comprising:

3 a write inhibit slice setting table for storing write inhibit slice setting values

4 established based on said information on said write order of said each sector and said position

5 information on said neighboring sectors,

6 wherein said write inhibit slice setting device sets said write inhibit slice for

7 said each sector based on said information stored in said write inhibit slice setting table.

1 5. The magnetic read/write apparatus as claimed in claim 3, further

2 comprising:

3 memory device for storing at least one of said information on said write order

4 of said each sector, said position information on said neighboring sectors, said information on

5 said degree of proximity erasure by said head, and said information on said rewrite counts of

6 said neighboring sectors,

wherein said write inhibit slice setting device sets said write inhibit slice for
said memory device.

7 wherein said write
8 said each sector based on said information stored in said memory device.

8 said each sector base.

1 6. The magnetic read/write apparatus as claimed in claim 5, wherein after

2 setting said write inhibit slice for said each sector, said write inhibit slice setting device

3 rewrites said information on said write order of said each sector stored in said memory device.

3 rewrites said information.

7. The magnetic read/write apparatus as claimed in claim 3, wherein:

1 a recording area is provided on said recording medium to store at least one of

2 said information on said write order of said each sector, said position information on said

3 neighboring sectors, said information on said degree of proximity erasure by said head, and

4 said information on said rewrite counts of said neighboring sectors; and

5 said write inhibit slice setting device reads said recording area on said

6 recording medium and sets said write inhibit slice for said each sector based on said read

7 information.

8

8 information.

1 8. The magnetic read/write apparatus as claimed in claim 7, wherein said

2 recording area is provided within said each sector or a management area on said recording

3 medium.

1 9. A magnetic read/write apparatus comprising:
2 a recording medium; and
3 a head for writing/reading data to/from each sector on said recording medium;
4 wherein said magnetic read/write apparatus further comprises rewriting device
5 for, when data is written to said recording medium, performing steps of:
6 counting the number of write operations performed on said each sector;
7 storing said information said number of write operations performed on
8 said each sector;
9 if said number of write operations performed on a sector is larger than a
10 predetermined value, reading data from neighboring sectors on one or both sides of
11 said sector; and
12 rewriting said sector with said read data.

1 10. A magnetic read/write apparatus comprising:
2 a recording medium; and
3 a plurality of heads for writing/reading data to/from each sector on said
4 recording medium;
5 wherein said magnetic read/write apparatus further comprises write inhibit
6 slice setting device for performing steps of:
7 writing a write inhibit slice correction value for each head beforehand;
8 and
9 when data is written to said recording medium, setting a write inhibit
10 slice for said each sector based on a recording state of said each sector on said
11 recording medium and said write inhibit slice correction value for said each head.